

CLAIMS

1. Process to reduce the susceptibility to scabbing of an aluminium alloy melt with a content of at least 2.5 w.% magnesium, characterised in that to the melt is added 0.02 to 0.15 w.% vanadium and less than 60 ppm beryllium.
2. Process according to claim 1, characterised in that to the melt is added 0.02 to 0.08 w.% vanadium, preferably 0.02 to 0.05 w.% vanadium.
3. Process according to claim 1 or 2, characterised in that to the melt with a content of more than 3.5 w.% magnesium is added 25 to 50 ppm beryllium, preferably 25 to 35 ppm beryllium.
4. Process according to claim 1 or 2, characterised in that to the melt with a content of less than 3.5 w.% magnesium is added less than 25 ppm beryllium.
5. Use of the process according to any of claims 1 to 4 for production of casting alloys with
2.5 to 7 w.% magnesium
max 2.5 w.% silicon
max 1.6 w.% manganese
max 0.2 w.% titanium
max 0.3 w.% iron
max 0.2 w.% cobalt
less than 60 ppm beryllium
0.02 to 0.15 w.% vanadium
and aluminium as the remainder and production-induced contaminants individually max 0.05 w.% and total max 0.15 w.%.

Add
6. Use of the process according to claim 5 to produce diecasting alloys.

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